

M310T Multi-parameter Analyzer



Large color touch screen
Easy operation and comfortable experience



Tilting stand
Support better reading and operation



Multiple external devices available
PC, printer



Wristbands
Safety hold

GENERAL FEATURES

- Color High contrast LCD touchscreen, 4.3 inches.
- Multi-reading feature allows auto-read, timed-read and continuous-read.
- Automatic/Manual temperature compensation ensures accurate results.
- Auto-hold feature senses and locks the measurement endpoint.
- Data capacity of up to 500 sets for each parameter (GLP-compliant).
- Support for USB communication.
- Auto-power off feature effectively extends the battery service life.
- Reset feature automatically resumes all settings back to factory default options.
- IP65 waterproof. The portable meter is suitable for fields measurements and out door measurements.

pH

- 1-5 points calibration with Standard Recognition.
- Selectable pH buffer groups, including NIST, DIN, GB, USA.
- Automatic electrode diagnosis with pH slope and offset display.

Ion

- 1-5 points calibration.
- Selectable measurement unit, including $\mu\text{g/L}$, mg/L , g/L , mmol/L , pX , ppm , ppb , etc.
- Measurement modes are supported, including Direct Reading mode, Standard Addition mode, Sample Addition mode and GRAN mode.
- Over 10 methods are built-in, including F^- , Cl^- , Br^- , I^- , NO_3^- , BF_4^- , NH_4^+ , K^+ , Na^+ , Ca^{2+} , Cu^{2+} , Pb^{2+} , Ag^+ and etc., user-defined method is supported.

Conductivity

- 1-3 points calibration with Standard Recognition.
- Settable parameters, including cell constant, temperature compensation coefficient, and TDS factor.
- Temperature compensation type (none, linear, pure water).

DO

- Support for air-saturated water or zero oxygen calibration.
- Auto barometric pressure compensation
- Manual Salinity Factor Correction
- Selectable pressure unit, including kPa , mbar , Torr , Atm .



Model	M310T	
Parameters	pH/EC/ISE/DO/Temp. (mV/pX/Resistivity/TDS/Sal./DO Saturation)	
pH	Range	-2.00 to 20.00 pH
	Resolution	0.1, 0.01 pH
	Accuracy	±0.01 pH
	Calibration Points	Up to 5
	Standard Customization	Yes
	Calibration Reminder	Yes
	Standard Recognition	NIST, GB, USA and DIN buffers
mV	Slope Limit	Yes
	Range	-2000.0 to 2000.0 mV
	Resolution	0.1 mV
pX	Accuracy	±0.3 mV or ±0.1%
	Range	-2.00 to 20.00 pX
	Resolution	0.1, 0.01 pX
ISE	Accuracy	±0.01 pX
	Calibration Points	Up to 5
	Range	1.000e-9 to 9.999e+9
	Units	mol/L, mmol/L, g/L, mg/L, µg/L, ppm, ppb
Conductivity	Resolution	Up to 4 significant digits
	Accuracy	±0.5%
	Calibration Points	Up to 5
	Range	0.000 µS/cm to 1000 mS/cm
	Resolution	0.001 µS/cm minimum, various with range selection
	Accuracy	±1.0% FS
Resistivity	Reference Temperature	20, 25 °C
	Calibration Points	Up to 3
	Standard Recognition	84µS/cm, 1413µS/cm, 12.88mS/cm
TDS	Range	5.00 Ω·cm~20.00 MΩ·cm
	Resolution	0.01Ω·cm minimum,
	Accuracy	±1.0% FS
Salinity	Range	0.00 ppm~300 ppt
	Resolution	0.01mg/L minimum, 3 significant digits
	Accuracy	±1.0%FS
Dissolved Oxygen Concentration	Range	0.0~80.0 ppt
	Resolution	0.1ppt
	Accuracy	±2ppt
	Sensor Type	Polarographic
	Range	0.00 to 50.00 ppm
	Resolution	0.01mg/L
Saturation	Accuracy	±0.10ppm
	Calibration Points	Air-saturated water or zero point
	Barometric Compensation	Yes
Temperature	Manual Salinity Factor Correction	Yes
	Range	(0.0 to 300.0)%
	Resolution	0.10%
Measurement	Accuracy	±2.0%
	Range	-5 to 110 °C, 23.0 to 230 °F
	Unit	°C, °F
	Resolution	0.1
Data management	Relative Accuracy	±0.2
	Reading Mode	Auto-Read (Fast, Medium, Slow), Timed, Continuous
	Reading Prompts	Reading, Stable, Locked
Inputs	Temp. Compensation	ATC, MTC
	Data Storage	1000 Groups
Outputs	GLP Features	Yes
	pH Electrode	BNC(Q9)
Display options	DO with Temp. Probe	4-pin aviation connector
	Conductivity with Temp. Probe	5-pin aviation connector
	USB	PC, printer
General	Backlight	Yes
	Auto Shutdown	300, 600, 1200, 1800, 3600sec., off
	IP Rating	IP65
	Date and Time	Yes
General	Power	Rechargeable Lithium battery, AC Adapter, 100-240V AC input, DC5V output
	Dimensions	90 x 255 x 40 mm
	Weight	500g (1.1 lb)